

ABSTRACT

1
2
3 A slider burnishing method is introduced, in which the
4 slider is brought into a predetermined surface contact with
5 the rotating disk for a specified period. The
6 predetermined surface contact and the specified time period
7 are selected together with the surface condition of the
8 rotating hard disk, such that smoothened slider surface is
9 abrasively formed. The smoothened slider surface is
10 substantially parallel to the disk surface and thus
11 provides reduced contact pressure during eventual
12 operational contacting. In addition, the smoothened slider
13 surface creates a constant gap together with the disk
14 surface, which enhances the aerodynamic properties of the
15 air bearing surface and stabilizes a small fly height.